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Among the chapters of the first sort, those on "The Axioms" and "The Definitions of Geometry," on "Geometrical Reasoning," on "Algebraical Notation," and on "The Development of Our Decimal System of Numbers," will be found most interesting. In the chapters on the "Special Difficulties" will be found much matter, of the sort that every teacher likes to have at his tongue's end, in explaining the difficult points of geometry and algebra.

Teachers of secondary mathematics are indebted to Mr. McCormack for placing within their reach these excellent and suggestive essays, which have heretofore been inaccessible to most of us.

Many references to other books and writers are given in the footnotes, which are particularly full on the subjects of logic and the axioms. The editor has contributed some references to recent works to supplement the lists of Mr. De Morgan.

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BOOKS RECEIVED.

[The notice here given does not preclude the publishing of a comprehensive review of any of these books.]

Electrical Problems. By William L. Hooper and Roy T. Wells. Pp. 170. Price, \$1.25. Boston: Ginn & Co.

This work contains sets of problems typical of those met with in electrical laboratory and engineering practice, with very brief treatment of the methods of solution. It is intended to meet the need for a collection of numerical problems in the classes of colleges and technical schools.

Real Things in Nature. By Edward S. Holden. Pp. 443. Price, — New York: The Macmillan Co.

Mr. Holden's books are well known to boys who are interested in nature, especially animate nature. In this book he has gathered in a well-organized form well-known facts in the scientific world, has clothed these facts in interesting form, and there has made clear for the boys of the grammar grades the solution of many of the mysteries of the workings of the world about them. This is a book which might well be used as early as the fifth grade.

Studies in Zoölogy. By James Merrill. Pp. 232. Price, 75 cents. Chicago: American Book Co.

The plan of these *Studies* was worked out in the Manual Training High School, Kansas City, Mo., and was devised that the beginner in this subject may be encouraged to study the animal in his environment, and be dependent on the book for suggestion only.

Botany All the Year Round. By E. F. Andrews. Pp. 302. Price, \$1. Chicago: American Book Co.

The aim of this book is to lead the pupil to nature for the objects of each lesson, and to provide that the proper material shall be always available by so arranging the lessons that each subject will be taken up just at the time of year when the material for it is most abundant.

America in its Relation to the Great Epochs of History. By William Justin Mann. Pp. 315. Price, \$1. Boston: Little, Brown & Co.

Mr. Mann has a subject that admits of many correlations and much imagination. He has manipulated his material very skilfully, and the result is a highly suggestive book.

Barnes's School History of the United States. Pp. 432. Price, \$1. Chicago: American Book Co.

The aim of the author is to give prominence to the industrial and social development.

Barnes's Elementary History of the United States. Pp. 360. Price, 60 cents. Chicago: American Book Co.

This is a study of the lives of men who have made the American nation. It is well illustrated with suggestive questions for review purposes.

Essentials in Ancient History. By Arthur Mayer Wolfson. Pp. 528. Price, \$1.50. Chicago: American Book Co.

This is the first of a four-volume series of histories for secondary schools.

School Composition. By William H. Maxwell and Emma L. Johnston. Pp. 224. Price, 50 cents. Chicago: American Book Co.

The scheme of work in this book is essentially inductive. The first part is devoted to analysis of models; the second to exercises in description, narration, exposition, letter-writing, and versification; the third, to the paragraph; and in the fourth an attempt is made to gather the substance of the preceding pages into rules and definitions.

A School Grammar of the English Language. By W. M. Baskerville and J. W. Sewell. Pp. 216. Price, —. Chicago: American Book Co.

Language Lessons. By J. W. Sewell. Pp. 160. Price, 35 cents. Chicago: American Book Co.

The Children's First Story Book. By May H. Wood. Pp. 80. Price, 25 cents. Chicago: American Book Co.

This is a first supplementary reader.

A Boy on a Farm. By Jacob Abbott. Pp. 182. Price, 45 cents. Chicago: American Book Co.

This is intended for third-grade supplementary reading.

Macaulay's Essay on Lord Clive. By J. W. Pearce. Pp. 180. Price, 25 cents. New York: The Macmillan Co.

Another addition to the handy, well-bound series of American and English classics issued by this firm.

Standard English Prose (Bacon to Stevenson). By Henry S. Pancoast. Pp. 676. Price, \$1.50. New York: Henry Holt & Co.

This book is intended for students of literature, and therefore the author has selected, as far as possible, typical sketches, essays, and short forms of composition of such brevity that there would be no abridgment necessary. The notes seem to be just what notes to any work on literature ought to be—brief, simple, and suggestive. This is a valuable book for the high school.

Corneille's *Cinna*. By John E. Matzke. Pp. 128. Price, —. Boston : D. C. Heath & Co.

The purpose of the author is to treat the play distinctly as a piece of literature.

Commercial German. By Arnold Kutner. Pp. 404. Price, \$1. Chicago : American Book Co.

This is intended for use in commercial schools and in the commercial courses of high schools.

Mediæval French Literature. By Gaston Paris. Pp. 160. Price, 40 cents. New York : The Macmillan Co.

A set of the "Temple Primers" ought to be in every high school. Authoritative content expressed in an interesting manner and bound in a handy usable style carry all the necessary commendation.

A Christmas Posy. By Lady Lindsay. Pp. 114. Price, 3s 6d. London : Kegan Paul, Trench, Trübner & Co.

The high standard of poetic excellence established by the former works of Lady Lindsay has been maintained in this collection of Christmas verses.

Special Method in the Reading of Complete English Classics in the Grades of the Common Schools. By Charles McMurry. Pp. 254. Price, 75 cents. New York : The Macmillan Co.

Elements of General Method. By Charles A. McMurry. Pp. 330. Price, 90 cents. New York : The Macmillan Co.

The Method of the Recitation. By Charles A. McMurry and Frank M. McMurry. Pp. 340. Price, 90 cents. New York : The Macmillan Co.

These rewritten books, which in their original form attracted so much attention, will be reviewed at length.

A History of the Middle Ages. By Dana Carleton Munro. Pp. 242. Price, 90 cents. New York : D. Appleton & Co.

Three subjects are specially emphasized in this book ; first, the work of the Christian church, the greatest of the civilizing agencies ; second, the debts which we owe to the Byzantine and Arabic civilization ; third, the life of the times.

Recent European History. By George Emory Fellows. Pp. 450. Price, \$1.25. Boston : Benj. H. Sanborn & Co.

This book aims to impart a knowledge of the movement toward constitutional government during the nineteenth century.

Stevenson's Treasure Island. By Hiram Albert Vance. Pp. 229. Price, 25 cents. New York : The Macmillan Co.

Scott's Lady of the Lake. By George Rice Carpenter. Pp. 190. Price, —. New York : Longmans, Green & Co.

The aim of this edition is merely to supply such help as is absolutely indispensable to a class in the first year of the high school beginning the reading of the poem. This book gives every evidence of being wisely edited.

Red Letter Days and Red Letter Facts. By I. Freeman Hall and Elizabeth D. Lennox. Pp. 219. Price, —. Chicago: The Morse Co.

These lessons have been prepared to awaken interest in history, biography, science, literature, and arts, and to stimulate and develop the habit of reading good books. This is an ambitious program and suggests that there may be lapses between the promise and the performance. The propriety of shortening up Tennyson's *May Queen* may be called in question, and the insertion of the four stanzas from *In Memoriam*, which children of the third and fourth grade certainly cannot appreciate, is certainly open to criticism.

Stories of Humble Friends. By Katherine Pyle. Pp. 197. Price, 50 cents. Chicago: American Book Co.

The stories in this book are about animals and birds familiar to children. It is intended for the third and fourth grades.

History for Graded and District Schools. By Ellwood Wadsworth Kemp. Pp. 537. Price, \$1. Boston: Ginn & Co.

This book is intended to present a course of history covering the elementary grades. The early Aryan life occupies the first year; life in Egypt, Judæa, and Phœnicia, the second; Greece, the third; Rome, the fourth; the early Teuton and the life in monastery and castle, the fifth; the crusades, the growth of Parliament and Reformation, the sixth; early life in America, the seventh; America from 1789, the eighth.

True Fairy Stories. By Mary E. Bakewell. Pp. 152. Price, 35 cents. Chicago: American Book Co.

These are called *true* because each illustrates an important truth.

Advanced Algebra. By William J. Milne. Pp. 608. Price \$1.50. Chicago: American Book Co.

The matter of this book is sufficient to cover either the entrance requirements of any scientific and technical school or the optional examination in advanced algebra now offered by many colleges and universities to candidates for matriculation.

Hand-Loom Weaving. By Mattie Phipps Todd. Pp. 160. Price, —. Chicago: Rand, McNally & Co.

This book is at once worthy of attention on account of the very suitable exterior. The subject is interesting to both old and young, and inasmuch as it seems the most suitable occupation for the desirable correlation of head and hand with younger children, the book will find an interested constituency.

A Manual of Zoölogy. By Richard Hertwig; translated by J. S. Kingsley. Pp. 704. Price, \$3. New York: Henry Holt & Co.

This is a translation, free and modified to accord with American usage of Professor Richard Hertwig's *Lehrbuch der Zoologie*, which has for ten years held the foremost place in German schools. A comprehensive review will appear shortly.

Laboratory Manual of Physics. By Henry C. Cheston, Philip R. Dean, and Charles E. Zimmerman. Pp. 128. Price, 50 cents. Chicago: American Book Co.

The seventy-three experiments in this manual include all those desired by the College Entrance Examination Board, by Harvard University and by the Regents of New York state. The course is intended for one year.

Grammar School Algebra. By Emerson E. White. Pp. 96. Price, 35 cents. Chicago: American Book Co.

This is intended for the last grade of the elementary school.

First Book of Forestry. By Filibert Roth. Pp. 291. Price, 75 cents. Boston: Ginn & Co.

"This book has been written with special reference to the needs of high schools, normal schools, and library of the country home." This is the kind of nature study that appeals to the growing boy. He has grown out of the sentimental stage of nature study and is not yet ready for the so-called scientific stage. Here is something near his life, of absorbing interest and of dignity. I should like to read this with boys in the grammar grades and I am not in the least doubtful about their appreciative interest.